AIWA®

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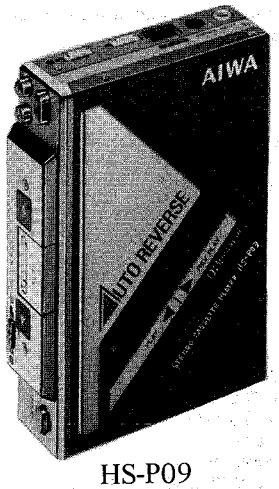
SERVICE MANUAL

STEREO CASSETTE PLAYER

MODEL NO.

HS-P09

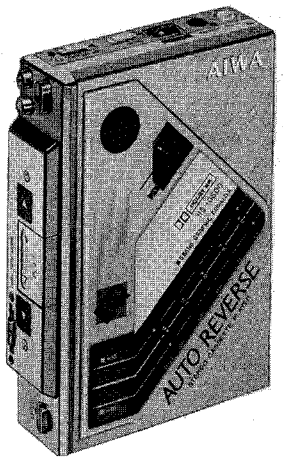


HS-P09

STEREO CASSETTE PLAYER

MODEL NO.

HS-G09, G600



HS-G09 G600

Basic mechanism 2ME–7

TYPE. Y

Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of serivce.

1. **No illegibility shall be given to the specification plate, the caution labels, the fuse labels and others.**
2. **When, on pattern sides of circuit boards, additional repair-parts have been made up, the parts shall be firmly glued to circuit boards or other components, unless the parts can be attached firmly.**
3. **The following matters shall be maintained as they are, when repairing.**
   1) Soldering of lead-wire ends
   2) Wiring and holding of lead-wires with wire-clips and binders
   3) Materials of lead-wires
   4) Location of all kinds of insulators
4. **General instructions for mechanism repair**
   1) The heads, capstan and pinch roller shall be cleaned of good quality alcohol after repaired, because dirty heads shall cause distorted sounds while dirty capstan and pinch roller shall occur wow/flutter and take-up fault.
   2) Lubricants been stained the surfaces of transmitting portion of the belts, idlers, capstan and pinch roller shall be removed, because slippery and faulty tape travel shall be caused.
   3) When oiling, only one or two drops shall be applied so as not to run over and be dispersed. Note should be taken of the metal fitting for the capstan and rotating portions of the idlers and pinch roller, especially.
   4) E-rings and poly slider washers shall be replaced with new ones, if once those have been removed. — No re-utilization due to unreliability.
   5) Regular spare-parts shall always be used for repair, because using irregular parts and tampering with the products shall cause deterioration, mulfunction and damage.

SPECIFICATIONS

HS-P09

Track format: 4-track, 2-channel stereo
Frequency response: 40—12,500 Hz (Normal tape)
40—16,000 Hz (Metal tape)
Maximum output: 40mW max. (20mW + 20mW) [EIAJ/ DC]
Output terminal: Headphone jack
3.5 ϕ mini stereo jack × 1
Power source: Batteries, DC3V R03 (LR03, AAA) × 2
Domestic AC power (with optional AC adaptor)
Battery life under continuous use:
EIAJ — 1 mW output, playback mode
Approx. 2.5 hours (Using manganese R03 batteries — UM-4, AAA batteries or equivalent)
Approx. 5 hours (Using alkaline LR03 batteries — AM-4, AAA batteries or equivalent)

Dimensions: 72.2(W) x 106(H) x 22.9(D) mm
Maximum dimensions: 77.7(W) x 107.2(H) x 25.4(D) mm
Weight: 225 g (including batteries)
Accessories: Stereo headphones x 1
Carrying case x 1

HS-G09, G600

Track format: 4-track, 2-channel stereo
Frequency response: 40—12,500 Hz (Normal tape)
40—16,000 Hz (Metal tape)
Maximum output: 40mW max. (20mW + 20mW) [EIAJ/ DC]
Output terminal: Headphone jack
3.5 ϕ mini stereo jack × 1
Power source: Batteries, DC3V R03 (LR03, AAA) × 2
Domestic AC power (with optional AC adaptor)
Battery life under continuous use:
EIAJ — 1 mW output, playback mode
Approx. 2.5 hours (Using manganese R03 batteries — UM-4, AAA batteries or equivalent)
Approx. 5 hours (Using alkaline LR03 batteries — AM-4, AAA batteries or equivalent)

Dimensions: 72.2(W) x 106(H) x 22.9(D) mm
Maximum dimensions: 77.7(W) x 107.2(H) x 26.2(D) mm
Weight: 230 g (including batteries)
Accessories: Stereo headphones x 1
Carrying case x 1

- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- Dolby and the DD symbol are trademarks of Dolby Laboratories Licensing Corporation.

☆ **MEMO** ☆

DISASSEMBLY INSTRUCTIONS

1. Circuit Board and Mechanism Checks

1) Remove the external parts. (See Figure 1)
   - Operation panel [screw A x 4]
   - Rear cabinet [screw B (long) x 2, screw B' (short) x 3]
   - Cassette lid [screw C x 4]
   - Frame [3 hooks]

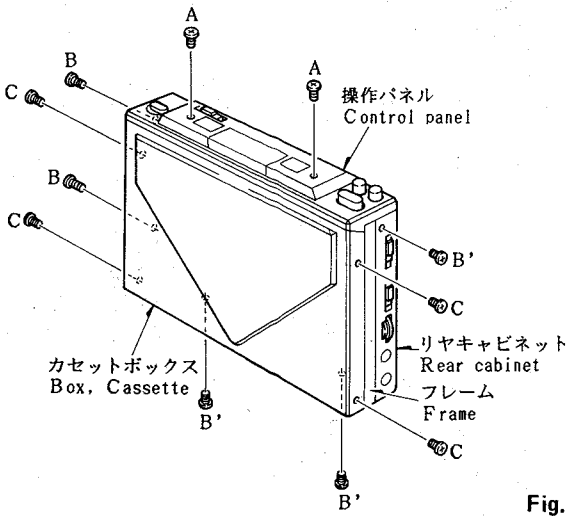


Fig. 1

2) Tear off the mylar sheet and separate the G-EQ circuit board and cassette lid. (See Figure 2, 3)

3) Remove the following screws and extend the lead wires. Lay out the lead wires appropriately when reinstalling the unit. (See Figure 3)
   - Main circuit board [screw D x 2]
   - Holder [screw E x 2]
   - Battery lid [screw F x 1]

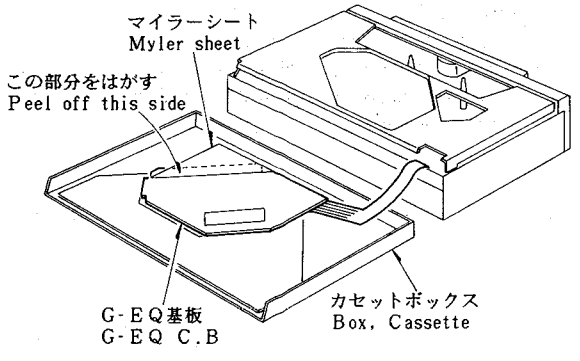


Fig. 2

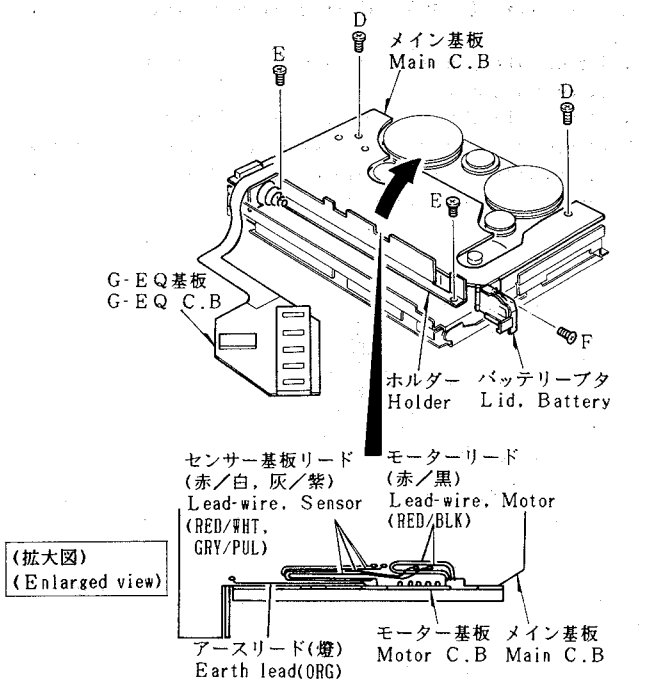


Fig. 3

4) Remove the head wire guide. (See Figure 4)
(It is fitted in by the tab. Remove it using a flat head screwdriver.)

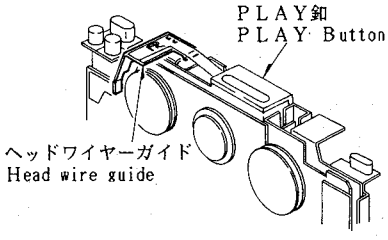


Fig. 4

5) Lift up the main circuit board as shown in the figures. (See Figure 3, 5)

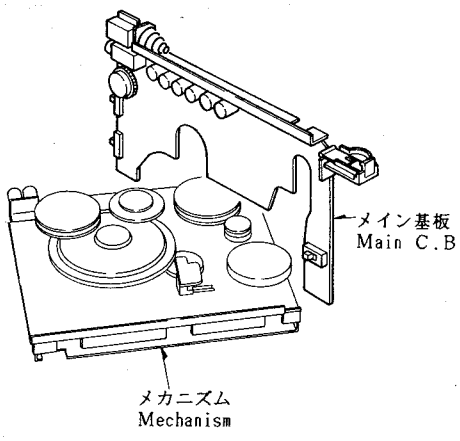


Fig. 5

2. Head (PH) Replacement

1) Remove the operation panel and rear cabinet. (See Figure 1)
2) Remove the PLAY button. (See Figure 6) (Shift it by approx. 1.5 mm in the direction of arrow A to release the locking and lift it in the direction of arrow B to remove it.)

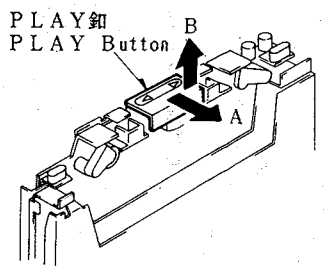


Fig. 6

3. Motor Replacement

1) Set so the main circuit board can be stood up following the procedure in 1. 1)－3). (See Figure 1. 3)
2) Unsolder the motor circuit board.
3) Remove 2 screws holding the motor through the hole in the cassette box and pull out the motor. (See Figure 7)

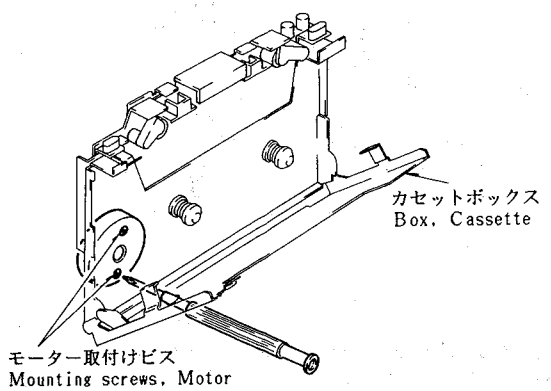


Fig. 7

4. DC Jack and HP Jack Replacement

[Lift up the main circuit board following the procedure in 1. 1)－5)]

1) DC Jack
1-1) Unsolder section a and lift the section slightly in the direction of the arrow.
1-2) Unsolder section b by heating the through-hole from the back of the circuit board using a soldering iron. (See Figure 8)

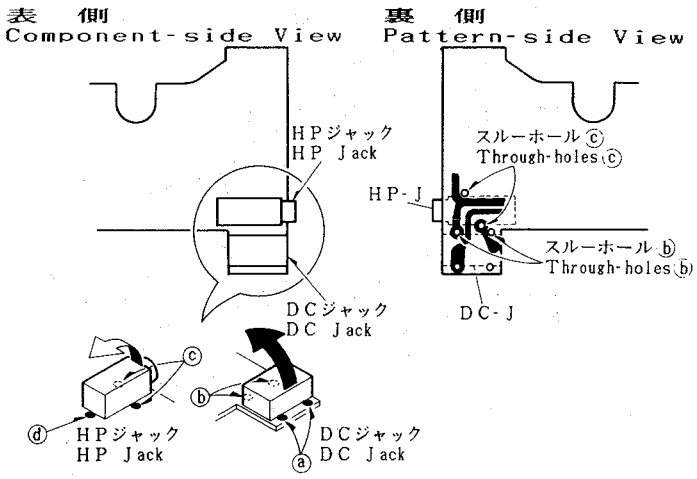


Fig. 8

Note: When reinstalling, allow the solder to flow to section b using the through-hole from the back of the circuit board.

2) HP Jack
2-1) Unsolder section c by heating the through-hole from the back of the circuit board using a soldering iron and lift the section slightly in the direction of the arrow. (See Figure 8)
2-2) Unsolder section c. (See Figure 8)
Note: When reinstalling, allow the solder to flow to section c using the through-hole from the back of the circuit board.

ELECTRICAL MAIN PARTS LIST (HS-P09,G09,G600)

CAPACITORS No mark, U, UF: μF P, PF : pF
COILS MMH: mH UH : μH
FUSE MMA: mA

- +++ mark denotes a component of assembled part which part code is represented by a previously stated component.
- ★-mark means less required items and availabilities may be limited.

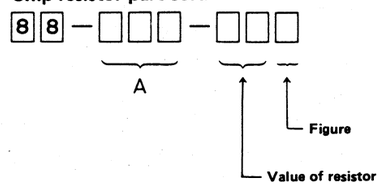
Ref. No.	Part No.	Description
=== IC ===		
	87-020-224	IC,NJM2063A
	87-020-670	IC,TA8115F
=== TRANSISTOR ===		
	89-502-094	FET,2SK209Y
	87-026-230	TRANSISTOR,DTA 114Y
	89-111-624	TRANSISTOR,2SA1162Y(TE-85R)
	89-327-125	TRANSISTOR,2SC2712GR
	89-333-266	TRANSISTOR,2SC3326B
=== MAIN CIRCUIT BOARD SECTION ===		
PCB-A	84-419-601	MAIN CIRCUIT BOARD
C1	★ 87-010-176	CAP,CHIP 680P
C2	★ 87-010-176	CAP,CHIP 680P
C3	★ 87-010-176	CAP,CHIP 680P
C4	★ 87-010-176	CAP,CHIP 680P
C5	★ 87-010-462	CAP,CHIP ELECT 47-4MV
C6	★ 87-010-462	CAP,CHIP ELECT 47-4MV
C7	★ 87-010-192	CAP,CHIP 0.022
C8	★ 87-010-192	CAP,CHIP 0.022
C9	★ 87-015-934	CAP,CHIP TANTALUN.2.2-4
C10	★ 87-015-934	CAP,CHIP TANTALUN.2.2-4
C11	★ 87-010-192	CAP,CHIP 0.022
C12	★ 87-010-192	CAP,CHIP 0.022
C13	★ 87-010-184	CAP,CHIP S B 3300P(K)
C14	★ 87-010-184	CAP,CHIP S B 3300P(K)
C15	★ 87-010-452	CAP,CHIP 1U
C16	★ 87-010-452	CAP,CHIP 1U
C17	★ 87-010-477	CAP,CHIP ELECT 220-4 VA
C18	★ 87-010-477	CAP,CHIP ELECT 220-4 VA
C19	★ 87-010-463	CAP,CHIP ELECT 100-4 MV
C20	★ 87-015-933	CAP,CHIP TANTALUN 1-10
C21	★ 87-010-477	CAP,CHIP ELECT 220-4 VA
C22	★ 87-010-477	CAP,CHIP ELECT 220-4 VA
C23	★ 87-010-195	CAP,CHIP 0.068
C24	★ 87-010-424	CAP,CHIP TANTALUN 4.7-4V1
C25	★ 87-010-188	CAP,CHIP 6800P
C26	★ 87-010-188	CAP,CHIP 6800P
C27	★ 87-010-193	CAP,CHIP 0.033
C28	★ 87-010-193	CAP,CHIP 0.033
C29	★ 87-010-194	CAP,CHIP 0.047
C30	★ 87-010-194	CAP,CHIP 0.047
C31	★ 87-015-926	CAP,CHIP TANTALUN 0.68
C32	★ 87-015-926	CAP,CHIP TANTALUN 0.68
C33	★ 87-010-186	CAP,CHIP 4700P
C34	★ 87-010-186	CAP,CHIP 4700P
C35	★ 87-015-933	CAP,CHIP TANTALUN 1-10
C36	★ 87-015-933	CAP,CHIP TANTALUN 1-10
C37	★ 87-010-196	CAP,CHIP 0.1 (G09,G600 ONLY)
C38	★ 87-010-477	CAP,CHIP ELECT 220-4 VA (G09,G600 ONLY)
C38	★ 87-010-196	CAP,CHIP 0.1 (P09 ONLY)
C39	★ 87-010-473	CAP,CHIP ELECT 47-4
C40	★ 87-010-477	CAP,CHIP ELECT 220-4 VA (G09,G600 ONLY)
C40	★ 87-010-450	CAP,CHIP 0.47U (P09 ONLY)
C41	★ 87-010-450	CAP,CHIP 0.47U (P09 ONLY)
C42	★ 87-010-464	CAP,ELECT 220-4 (P09 ONLY)
C43	★ 87-010-452	CAP,CHIP 1U (P09 ONLY)
C44	★ 87-010-449	CAP,CHIP TANTALUM 22-4 (P09 ONLY)
C45	★ 87-010-452	CAP,CHIP 1U (P09 ONLY)
C46	★ 87-010-452	CAP,CHIP 1U (P09 ONLY)
C65	★ 87-010-483	CAP,ELECT 4 220-4(S)
C66	★ 87-010-450	CAP,CHIP 0.47U (G09,G600 ONLY)
C67	★ 87-010-450	CAP,CHIP 0.47U (G09,G600 ONLY)
C68	★ 87-010-464	CAP,CHIP ELECT 220-4 (G09,G600 ONLY)
C69	★ 87-010-452	CAP,CHIP 1U (G09,G600 ONLY)
C70	★ 87-010-449	CAP,CHIP TANTALUM 22-4 (G09,G600 ONLY)
C71	★ 87-010-452	CAP,CHIP 1U (G09,G600 ONLY)
C72	★ 87-010-452	CAP,CHIP 1U (G09,G600 ONLY)
D2	87-020-125	DIODE 1SS181
D3	87-020-125	DIODE 1SS181
D4	87-020-125	DIODE 1SS181
D5	87-020-027	CHIP DIODE 1SS184
D6	87-020-027	CHIP DIODE 1SS184
D7	87-020-027	CHIP DIODE 1SS184
D8	87-020-125	DIODE 1SS181
D9	87-020-027	CHIP DIODE 1SS184
D10	87-020-125	DIODE 1SS181
D11	87-020-339	CHIP DIODE 1SS226
D12	★ 87-020-508	CHIP LED (OPE/BATT)
D13	87-020-125	DIODE 1SS181
J1	87-049-663	JACK 3.5 (PHONES)
J2	87-049-664	JACK DC (DC3V)
R19	★ 87-022-033	RES,CHIP 430K
R20	★ 87-022-033	RES,CHIP 430K
R46	★ 87-022-033	RES,CHIP 430K (P09 ONLY)
R49	★ 87-022-033	RES,CHIP 430K (G09,G600 ONLY)
S1	84-419-607	SLIDE SW (FWD/REV)
S2	87-031-988	SLIDE SW (TAPE)
S3	87-031-988	SLIDE SW (DOLBY NR)
S4-1	84-419-608	LEAF SW (FF)
S4-2	+++	LEAF SW (REW)
SFR1	★ 87-021-969	CHIP SFR 330
SFR2	★ 87-021-969	CHIP SFR 330
VR1	81-198-615	VOLUME 10KA (VOLUME)
=== HEAD CIRCUIT BOARD SECTION ===		
PH	86-530-609	PH ASSY (W/PCB-B)
PH	86-530-610	HEAD PH
	86-530-611	FLEXIBLE CIRCUIT BOARD
=== MOTOR CIRCUIT BOARD SECTION ===		
M1	86-530-616	MOTOR (P)ASSY (W/PCB-C)
=== SENSOR CIRCUIT BOARD SECTION ===		
PCB-D	86-530-623	SENSOR CIRCUIT BOARD
PR1	87-022-507	PHOTO SENSO SP1900(O)
=== GEQ CIRCUIT BOARD SECTION (G09,G600 ONLY) ===		
	84-419-606	GEQ ASSY (W/PCB-E)
	84-419-609	FLEXISIBLE CIRCUIT BOARD
=== MISCELLANEOUS ===		
S5	86-530-622	LEAF SW (PLAY)

IC handling precaution

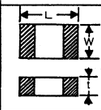
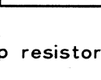
IC's construction makes this part susceptible to damage by static electricity and so take sufficient care in regard to following articles.

1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260°C) of power consumption for soldering. But do not overheat more than 10 second.
3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.

Chip resistor part cord



Chip resistor

Power value	Type	Dimensions (mm) Form	L	W	t
1/10W	A:118		2	1.25	0.45
1/6W	A:129		3.2	1.6	0.5 ~0.7

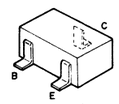
Example of chip resistor

560Ω 88—129—561
10kΩ 88—129—103

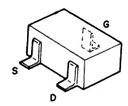
NOTES:

1) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals.
2) Resistors with no designation have a rated power of 1/8W and a tolerance of ±5%.
3) Capacitors with no designation have a dielectric strength of less than 50WV.
   The only capacitor tolerance indicated are ±5% (J) and ±10% (K).
4) Ceramic capacitor symbols:
   - For temperature compensation (SL)
   - High dielectric constant system (YY)
   - High dielectric constant system (YW, YP, YZ)
   - Semiconductor ceramic
   - For temperature compensation (SH)

- This schematic diagram is subject to change without notice in the interests of improved performance.



DTA114
2SA1162
2SC2712
2SC3326

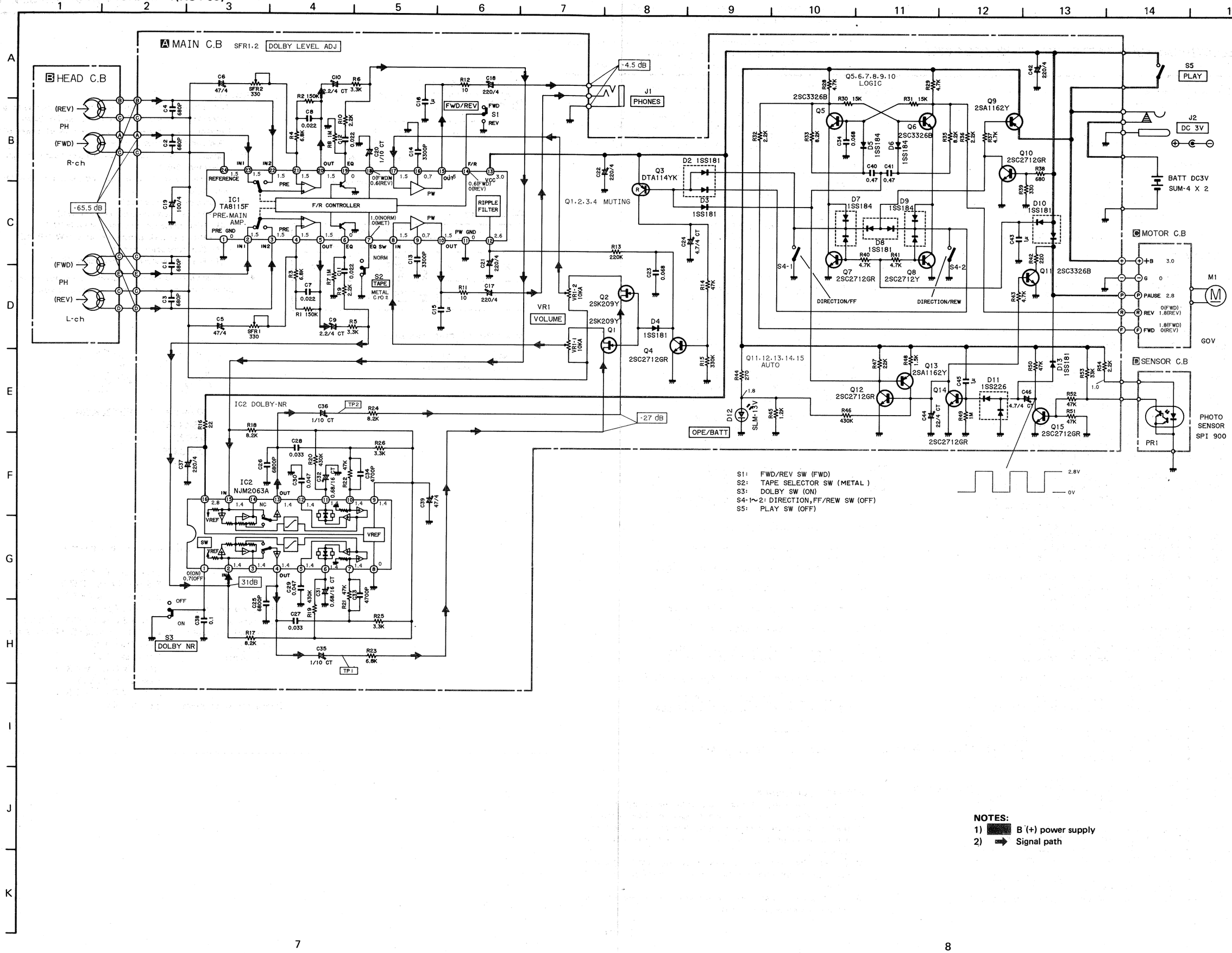


FET2SK209

Practical Service Figure

Wow and Flutter:	Less than 0.5%
Take up torque:	25～35g-cm (FWD)
	25～40g-cm (REV)
FF & rewind torque:	60～120g-cm
Back tension:	1.5～3g-cm (FWD, REV)
Signal noise ratio(PB):	48±4/48±4dB (DC/AC)
Distortion:	Less than 1%
Noise level:	Less than 3mV (DC, VOL. MAX.)
	Less than 0.5mV (DC, VOL. MIN.)
Pinch roller pressure:	160±10g

SCHEMATIC DIAGRAM–1(HS-P09)

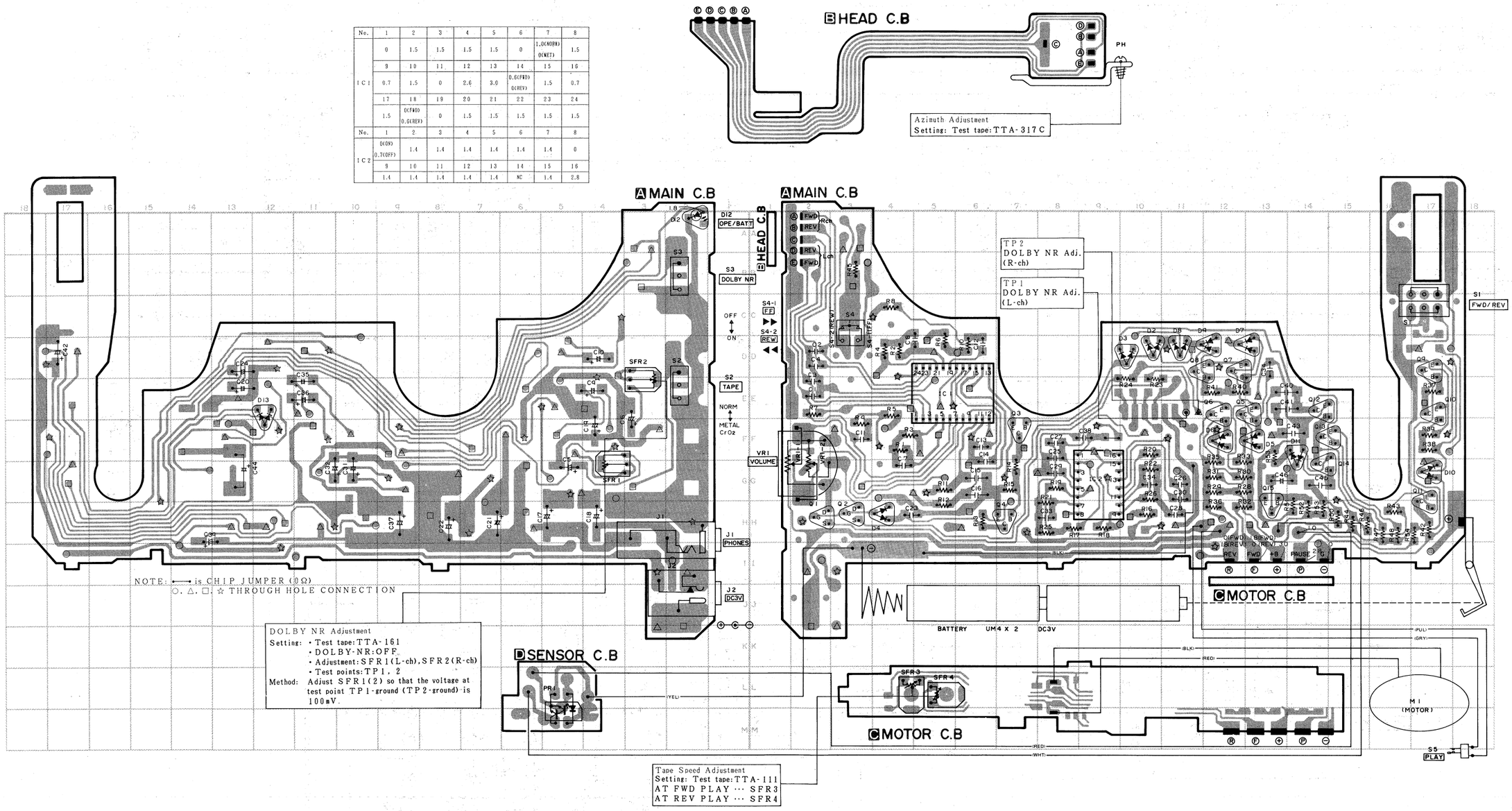


S1: FWD/REV SW (FWD)
S2: TAPE SELECTOR SW (METAL)
S3: DOLBY SW (ON)
S4-1~2: DIRECTION,FF/REW SW (OFF)
S5: PLAY SW (OFF)

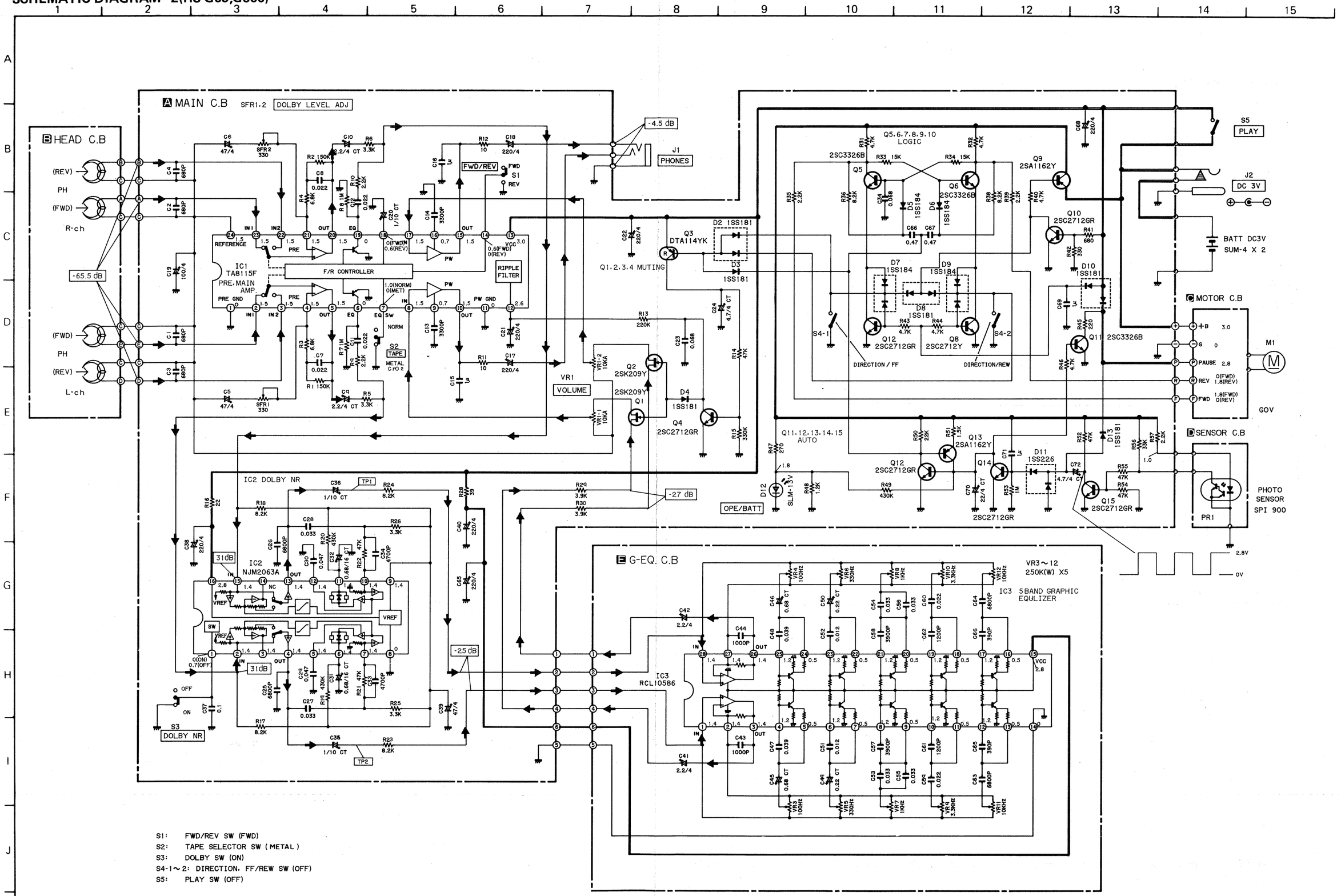
NOTES:
1) ■ B (+) power supply
2) ➡ Signal path

WIRING—1(HS-P09)

No.	1	2	3	4	5	6	7	8
IC1	0	1.5	1.5	1.5	1.5	0	1.0(NORM) 0(NET)	1.5
	9	10	11	12	13	14	15	16
	0.7	1.5	0	2.6	3.0	0.6(FWD) 0(REV)	1.5	0.7
	17	18	19	20	21	22	23	24
	1.5	0(FWD) 0.6(REV)	0	1.5	1.5	1.5	1.5	1.5
No.	1	2	3	4	5	6	7	8
IC2	0(ON) 0.7(OFF)	1.4	1.4	1.4	1.4	1.4	1.4	0
	9	10	11	12	13	14	15	16
	1.4	1.4	1.4	1.4	1.4	NC	1.4	2.8



NOTE (1) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.



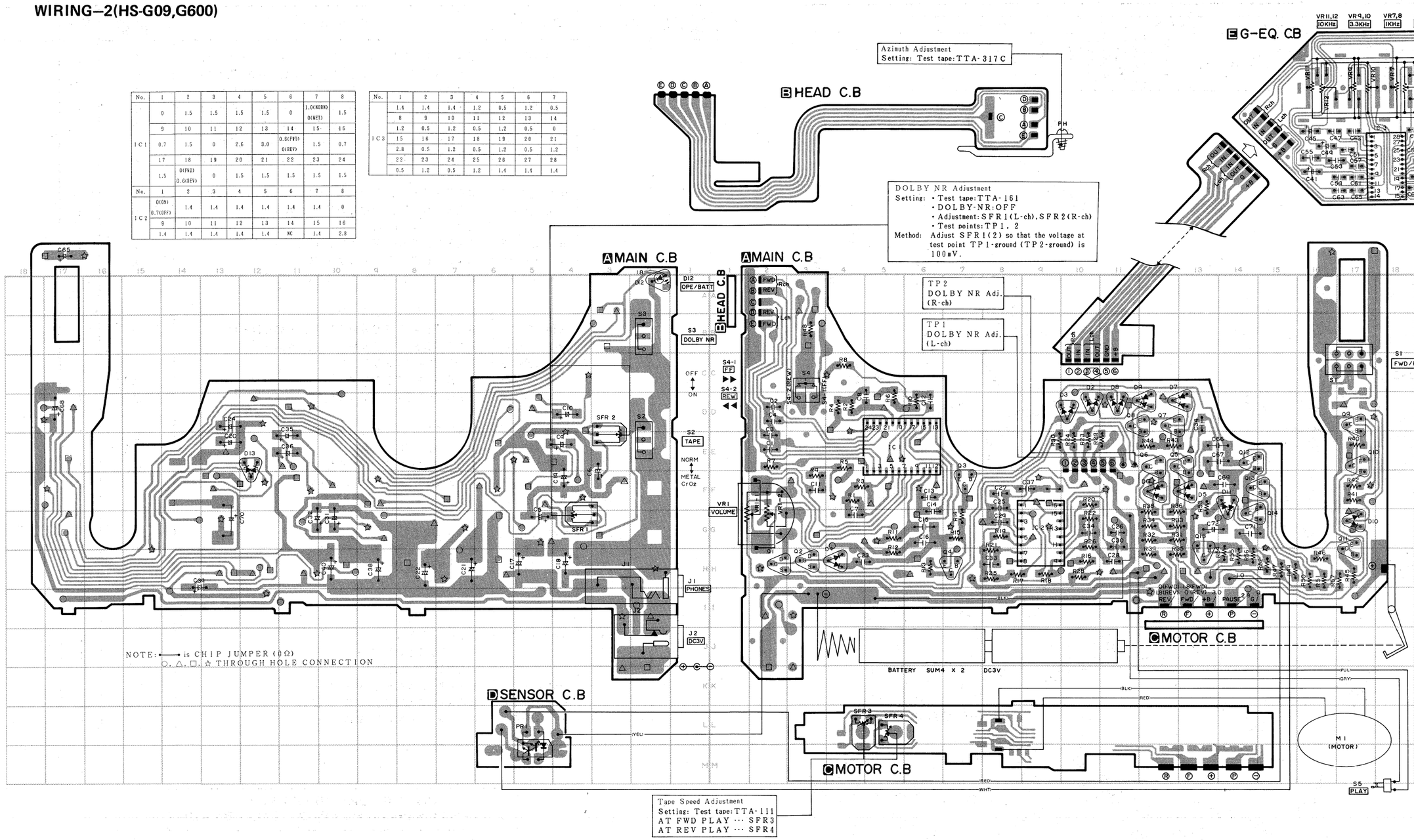
S1: FWD/REV SW (FWD)
S2: TAPE SELECTOR SW (METAL)
S3: DOLBY SW (ON)
S4-1~2: DIRECTION. FF/REW SW (OFF)
S5: PLAY SW (OFF)

NOTES:
1) ■ B (+) power supply
2) ➡ Signal path

WIRING–2(HS-G09,G600)

No.	1	2	3	4	5	6	7	8
IC1	0	1.5	1.5	1.5	1.5	0	1.0(NORM) 0(NET)	1.5
	9	10	11	12	13	14	15	16
	0.7	1.5	0	2.6	3.0	0.6(FWD) 0(REV)	1.5	0.7
	17	18	19	20	21	22	23	24
	1.5	0(FWD) 0.6(REV)	0	1.5	1.5	1.5	1.5	1.5
No.	1	2	3	4	5	6	7	8
IC2	0(ON) 0.7(OFF)	1.4	1.4	1.4	1.4	1.4	1.4	0
	9	10	11	12	13	14	15	16
	1.4	1.4	1.4	1.4	1.4	NC	1.4	2.8

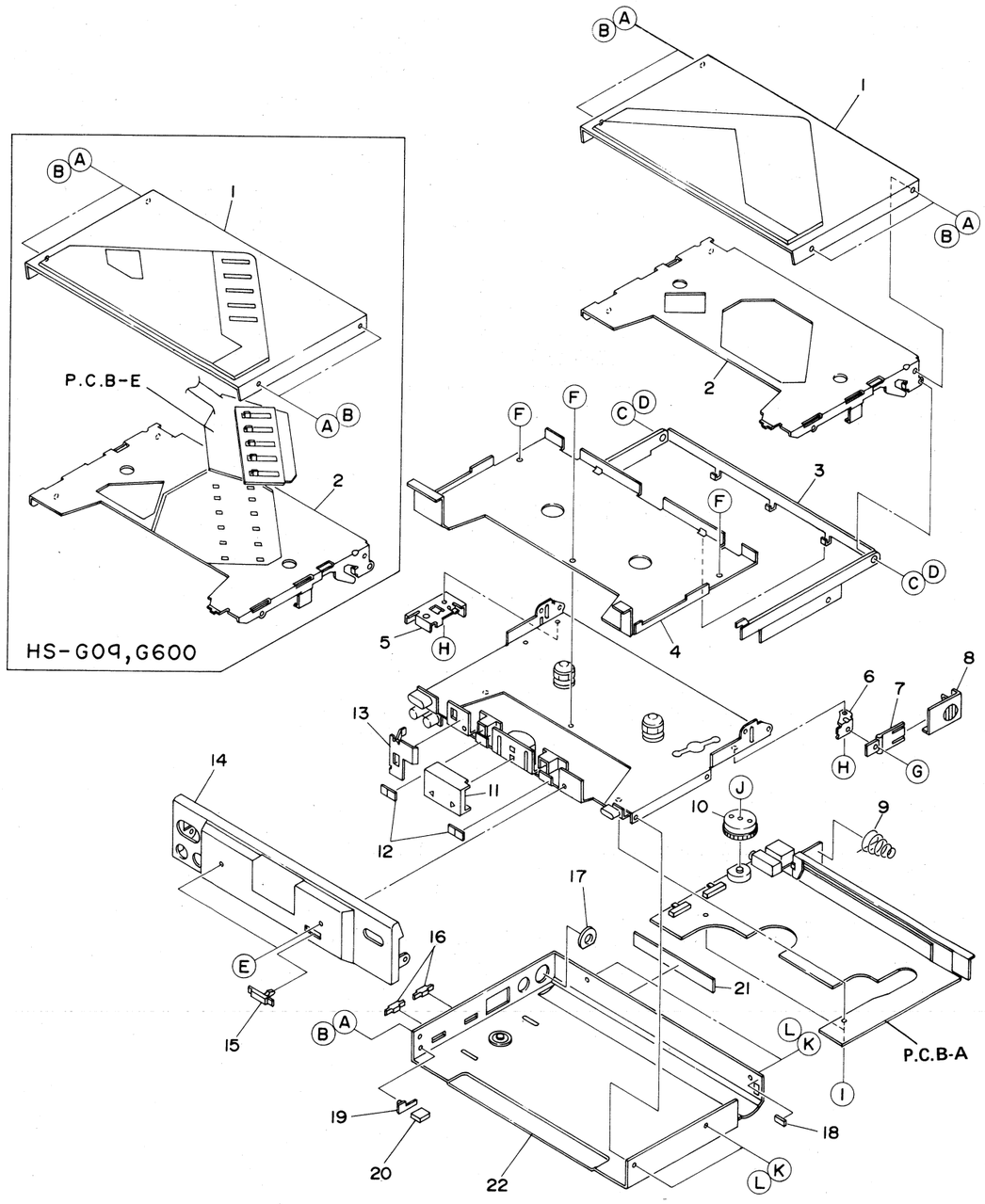
No.	1	2	3	4	5	6	7
IC3	1.4	1.4	1.4	1.2	0.5	1.2	0.5
	8	9	10	11	12	13	14
	1.2	0.5	1.2	0.5	1.2	0.5	0
	15	16	17	18	19	20	21
	2.8	0.5	1.2	0.5	1.2	0.5	1.2
	22	23	24	25	26	27	28
	0.5	1.2	0.5	1.2	1.4	1.4	1.4



NOTE (1) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

EXPLODED VIEW-I (HS-P09, G09, G600)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
A	87-263-500-31	V+1.4−1.4 (1)	G	87-234-504-31	Q+1.4−2.2 (3)
B	87-261-500-31	V+1.4−1.4 (1) B	H	87-262-500-31	V+1.4−1.4 (3) B
C	87-067-288-01	HINGE SCREW +1.4−1	I	87-264-503-31	V+1.4−2
D	87-067-319-01	HINGE SCREW +1.4−1(WHITE)	J	87-262-508-31	V+1.4−3.5−(3) B
E	87-067-287-01	V+1.4−1.8	K	87-263-503-31	V+1.4−2 (1)
F	87-067-279-01	Q+1.4−1.6 (1) B	L	87-261-503-31	V+1.4−2 (1) B



MECHANICAL PARTS LIST (HS-P09, G09, G600)

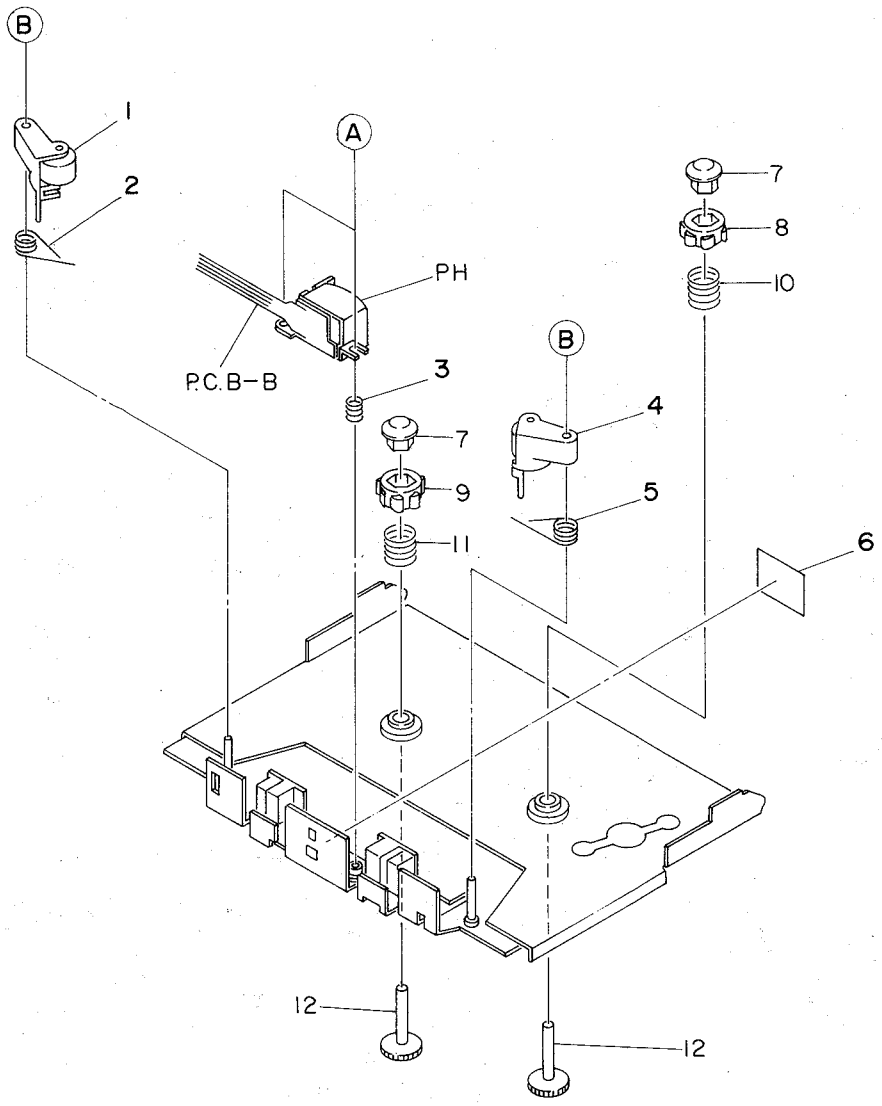
- ※-mark in this part list shows exclusive part.
- ★-mark means less required items availabilities may be limited.
- No avalilability part is warked with- - -in Part No. list.

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	1-1	09-027-427	CASSETTE LID Ass'y YS (HS-P09)	※	1
		09-027-428	CASSETTE LID Ass'y YR (HS-P09)	※	1
		09-027-429	CASSETTE LID Ass'y YB (HS-P09)	※	1
		09-027-430	CASSETTE LID Ass'y YS (HS-G09)	※	1
		09-027-431	CASSETTE LID Ass'y YR (HS-G09)	※	1
		09-027-432	CASSETTE LID Ass'y YB (HS-G09)	※	1
		09-027-433	CASSETTE LID Ass'y YUS (HS-G600)	※	1
	1-2	★84-420-208	CASSETTE HOLDER(P)Ass'y (HS-P09)	※	1
		★84-419-201	CASSETTE HOLDER Ass'y (HS-G09, G600)	※	1
	1-3	★84-420-003	CASSETTE FLAME (S, R)	※	1
		★84-420-005	CASSETTE FLAME B	※	1
	1-4	★86-530-006	DECORATION PLATE		1
	1-5	---	JACK HOLDER (P)		1
	1-6	★84-420-210	BATTERY TERMINAL HOLDER	※	1
	1-7	★84-420-212	BATTERY TERMINAL Ass'y	※	1
	1-8	84-420-044	LID BATTERY (S)	※	1
		84-420-045	LID BATTERY (R)	※	1
		84-420-004	LID BATTERY (B)	※	1
	1-9	84-420-204	BATTERY TERMINAL ⊖	※	1
	1-10	★82-690-012	KNOB, VOLUME		1
	1-11	★86-530-001	PUSH-BUTTON, PLAY		1
	1-12	★84-420-011	STEEL, DIRECTION	※	2
	1-13	★84-420-207	HEAD WIRE GUIDE	※	1
	1-14	★84-420-014	CONTROL PANEL Ass'y	※	1
	1-15	84-420-020	SLIDE KNOB, DIRECTION P	※	1
	1-16	84-420-007	SLIDE KNOB	※	2
	1-17	★84-420-019	SPACER, JACK	※	1
	1-18	---	MYLER SHEET 2×4×0.3		1
	1-19	★84-420-009	LED LENS	※	1
	1-20	---	G CUSHION 5−5−1.5		1
	1-21	---	LABEL, SPEC.		1
	1-22	★84-419-034	REAR PANEL YS Ass'y	※	1
		★84-419-036	REAR PANEL YR Ass'y	※	1
		★84-419-038	REAR PANEL YB Ass'y	※	1

COLOR DESCRIPTION
[S]=SILVER, [R]=RED, [B]=BLACK

EXPLODED VIEW-2

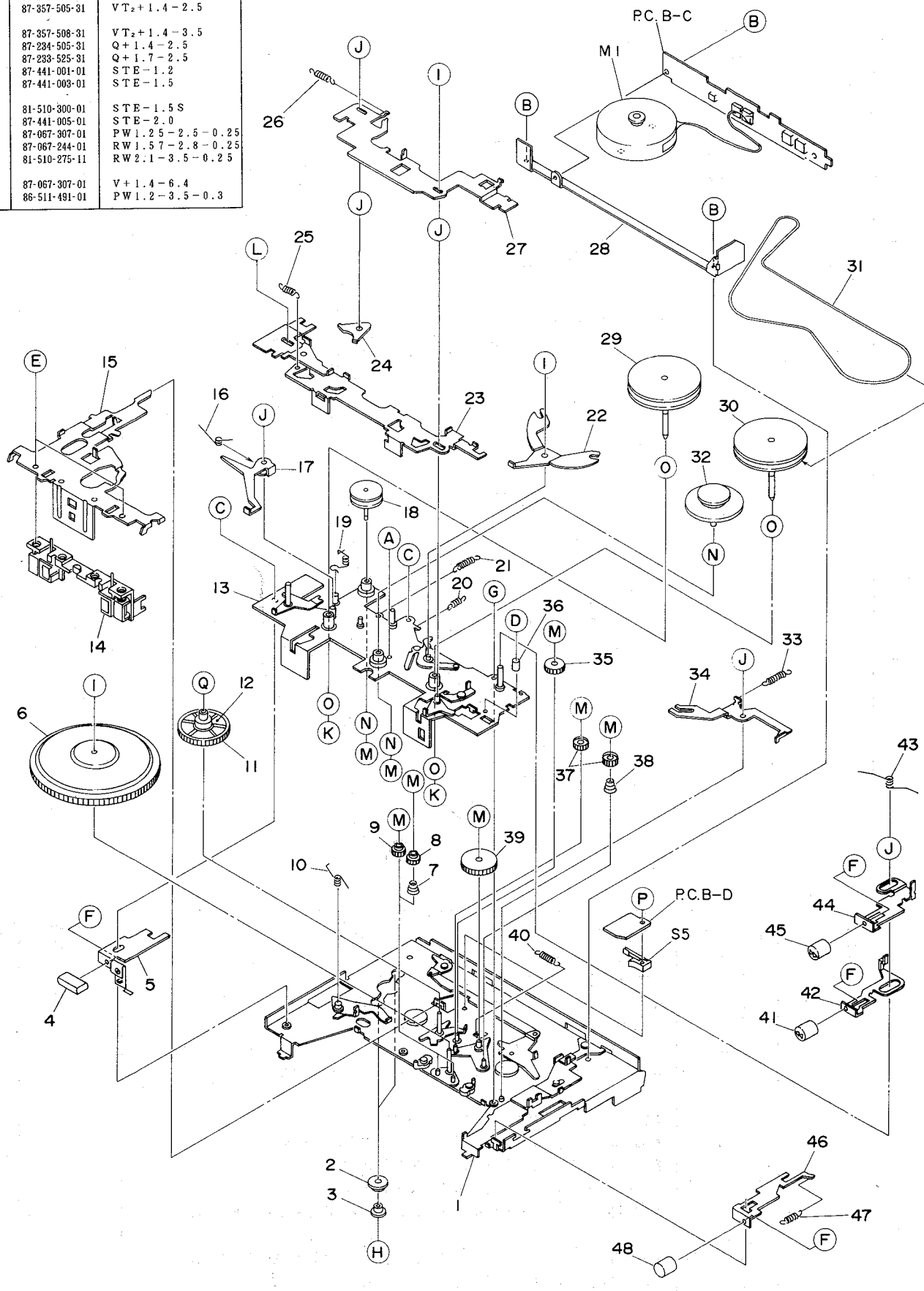
Ref. No.	Part No.	Description
A B	87-264-508-31 87-067-228-01	V+1.4−3.5 PW1−2.6−0.25



Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	2-1	86-530-294	PINCH LEVER Ass'y A		1
	2-2	★86-530-296	T-SPRING, PINCH LEVER A		1
	2-3	★86-530-356	C-SPRING, HEAD		1
	2-4	86-530-297	PINCH LEVER Ass'y B		1
	2-5	★86-530-299	T-SPRING, PINCH LEVER B		1
	2-6	★86-530-018	MYLER, HEAD		1
	2-7	★86-530-276	CAP, REEL PLATFORM		2
	2-8	★86-530-417	REEL SPINNER T		1
	2-9	★86-530-418	REEL SPINNER S		1
	2-10	★86-530-277	C-SPRING, REEL PLATFORM A		1
	2-11	★86-530-343	C-SPRING, REEL PLATFORM B		1
	2-12	★86-530-275	GEAR, REEL PLATFORM		2

EXPLODED VIEW-3

Ref. No.	Part No.	Description
A	87-067-300-01	V+1.4-11
B	87-263-500-31	V+1.4-1.4
C	87-264-503-31	V+1.4-2
D	87-263-505-31	V+1.4-2.5
E	87-357-505-31	VT_2+1.4-2.5
F	87-357-508-31	VT_2+1.4-3.5
G	87-234-505-31	Q+1.4-2.5
H	87-233-525-31	Q+1.7-2.5
I	87-441-001-01	STE-1.2
J	87-441-003-01	STE-1.5
K	81-510-300-01	STE-1.5S
L	87-441-005-01	STE-2.0
M	87-067-307-01	PW1.25-2.5-0.25
N	87-067-244-01	RW1.57-2.8-0.25
O	81-510-275-11	RW2.1-3.5-0.25
P	87-067-307-01	V+1.4-6.4
Q	86-511-491-01	PW1.2-3.5-0.3



Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	3-1	---	CHASSIS Ass'y B (P)		1
	3-2	★86-530-382	G CUSHION, MOTOR (N)		2
	3-3	★86-530-383	COLLAR, MOTOR (N)		2
	3-4	★86-530-008	PUSH-BUTTON, EJECT		1
	3-5	★86-530-015	EJECT LEVER Ass'y		1
	3-6	★86-530-300	GEAR Ass'y A		1
	3-7	★86-530-314	C-SPRING, GEAR I		1
	3-8	★86-530-311	GEAR I		1
	3-9	★86-530-260	GEAR K		1
	3-10	★86-530-327	T-SPRING, EJECT BLOCKING LEVER		1
	3-11	★86-530-310	GEAR H		1
	3-12	★86-530-351	SHEET, GEAR H		1
	3-13	---	CHASSIS A Ass'y (P)		1
	3-14	★86-530-227	TAPE GUIDE		1
	3-15	★86-530-224	HEAD CHASSIS Ass'y		1
	3-16	★86-530-329	T-SPRING, SELECTOR LEVER		1
	3-17	★86-530-331	ARM SELECT		1
	3-18	86-530-287	FW C Ass'y		1
	3-19	★86-530-325	T-SPRING, REVERSE LEVER C		1
	3-20	★86-530-322	E-SPRING, GEAR G LEVER		1
	3-21	★86-530-323	E-SPRING, HEAD CHASSIS		1
	3-22	★86-530-222	LEVER, REVERSE B		1
	3-23	★86-530-233	REVERSE LEVER C Ass'y		1
	3-24	★86-530-239	LEVER, FWD START		1
	3-25	★86-530-372	E-SPRING, LOCK EJECT A		1
	3-26	★86-530-421	E-SPRING, LOCK LEVER (P)		1
	3-27	★86-530-415	LEVER, LOCK (P)		1
	3-28	---	HOLDER, BATTERY (P)		1
	3-29	86-530-286	FW B Ass'y		1
	3-30	86-530-282	FW A Ass'y		1
	3-31	86-530-293	BELT, MAIN		1
	3-32	86-530-290	FW D Ass'y		1
	3-33	★86-530-352	E-SPRING, GEAR RESTRICTION LEVER R		1
	3-34	★86-530-333	LEVER, GEAR EJECT B		1
	3-35	★86-530-308	GEAR F		1
	3-36	★86-530-375	COLLAR 1.7		1
	3-37	★86-530-306	GEAR D		2
	3-38	★86-530-312	C-SPRING, GEAR D		1
	3-39	★86-530-309	GEAR G		1
	3-40	★86-530-328	E-SPRING, FR RESTRICTION		1
	3-41	★86-530-002	PUSH-BUTTON, FF		1
	3-42	★86-530-410	LEVER, FF (P)		1
	3-43	★86-530-326	T-SPRING, FR LEVER		1
	3-44	★86-530-411	LEVER, REW (P)		1
	3-45	★86-530-009	PUSH-BUTTON, REW		1
	3-46	★86-530-420	LEVER, STOP (P)		1
	3-47	★86-530-320	E-SPRING, STOP LEVER		1
	3-48	★86-530-005	PUSH-BUTTON, STOP (P)		1

■ACCESSORIES/PACKAGE LIST

HS-P09

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty	
	1	★84-420-904	INSTRUCTION BOOKLET	※	1	
	2	★84-419-952	CARRYING CASE BLACK (YS)	HS-G09, G600	1	
	3	★84-419-951	CARRYING CASE RED (YR)	HS-G09, G600	1	
	4	★87-080-020	BELT HANGER B Ass'y GY		1	

HS-G09,G600

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty	
	1	★84-419-904	INSTRUCTION BOOKLET (Y only)	※	1	
	2	★84-419-905	INSTRUCTION BOOKLET (YU only)	※	1	
	3	★84-419-951	CARRYING CASE RED (YR)	※	1	
	4	★84-419-952	CARRYING CASE BLACK (YS)	※	1	
	5	★87-080-020	BELT HANGER B Ass'y GY		1	

COLOR DESCRIPTION
[S]=SILVER, [R]=RED, [B]=BLACK

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